WHAT IS CLAIMED:

1. A condenser microphone employing a wide band stop filter for wideband signals of low frequency and radio frequency, the condenser microphone having improved resistance to electrostatic discharge applied from outside and preventing radio frequency interference to decrease noise, the condenser microphone comprising:

an acoustic module 36 for converting sound pressure into variation of an electric signal;

an amplification means for amplifying the electric signal inputted from the acoustic module 36; and

an EM-noise-filtering/ESD-blocking section 32 for blocking a wideband signal having low frequency and radio frequency outputted from the amplification means, blocking introduced electromagnetic waves, radio wave noise, and electrostatic discharge, the EM-noise-filtering/ESD-blocking section including one or combination of a resistor and a capacitor disposed between an input port of the amplification means and the acoustic module 36 and/or between an output port of the amplification means and a ground, the resistor and the capacitor being connected in parallel or in series to each other.

2. A condenser microphone as claimed in claim 1, wherein the capacitor and the resistor have a capacitance between 1pF and 100μF and a resistance between 10Ω and 1GΩ, respectively, each of which can be selectively adjusted according to frequency band.

3. A condenser microphone as claimed in claim 1, wherein the EM-noise-filtering/ESD-blocking section 32 comprises:

a resistor R11 connected serially between output port of the amplification means and signal output port 34a; and

a capacitor C11 connected between one end of the resistor R11 and ground

GND.

4. A condenser microphone as claimed in claim 3, wherein:

the capacitor C11 has a capacitance selected from the group consisting of 1nF, 1.5nF, 2.2nF, 3.3nF, 4.7nF, 6.8nF, 10nF, 15nF, 22nF, 33nF, 47nF, 68nF and 100nF; and

the resistor R11 has a resistance selected from the group consisting of 100Ω, 220Ω, 330Ω, 430Ω, 620Ω, 680Ω, 820Ω and 1KΩ.

5. A condenser microphone as claimed in claim 1, wherein the EM-noise-filtering/ESD-blocking section 32 comprises:

a first capacitor C21 connected in parallel between output port of the amplification means and ground port to function as a filter;

a second capacitor C22 connected parallel to the first capacitor C21 to perform an EM-noise-filtering and ESD-blocking function; and

a first resistor R21 connected serially to between an output port of the first capacitor C21 and an output port of the second capacitor C22 to perform a decoupling function, so that the EM-noise-filtering/ESD-blocking section has a shape of a character 'Π'.

6. A condenser microphone as claimed in claim 5, wherein:

the first capacitor C21 has a capacitance of 10pF or 33pF;

the second capacitor C22 has a capacitance selected from the group consisting of 1nF, 1.5nF, 2.2nF, 3.3nF, 4.7nF, 6.8nF, 10nF, 15nF, 22nF, 33nF, 47nF, 68nF and 100nF; and

the first resistor R21 has a resistance selected from the group consisting of 100Ω, 220Ω, 330Ω, 430Ω, 620Ω, 680Ω, 820Ω and 1KΩ.

7. A condenser microphone as claimed in claim 1, wherein the EM-noise-filtering/ESD-blocking section 32 comprises:

a first capacitor C21 connected in parallel between output port of the amplification means and ground port to function as a filter;

a second capacitor C22 connected parallel to the first capacitor C21 to perform an EM-noise-filtering function; and

a first resistor R21 connected serially to between a ground port GND of the first capacitor C21 and a ground port GND of the second capacitor C22 to perform a decoupling function, so that the EM-noise-filtering/ESD-blocking section has a shape of a character 'inverted Π'.

8. A condenser microphone as claimed in claim 7, wherein:

the first capacitor C21 has a capacitance of 10pF or 33pF;

the second capacitor C22 has a capacitance selected from the group consisting of 1nF, 1.5nF, 2.2nF, 3.3nF, 4.7nF, 6.8nF, 10nF, 15nF, 22nF, 33nF, 47nF, 68nF and 100nF; and

the first resistor R21 has a resistance selected from the group consisting of 100Ω, 220Ω, 330Ω, 430Ω, 620Ω, 680Ω, 820Ω and 1KΩ.

9. A condenser microphone as claimed in claim 5 or claim 7, further comprising a noise-blocking resistor R22 between the acoustic module 36 and input port of the amplification means so as to block electromagnetic noise from being inputted.

10. A condenser microphone as claimed in claim 9, wherein the noise-blocking resistor has a resistance selected from the group consisting of 100Ω, 1KΩ, 10KΩ, 100KΩ, and 1MΩ.

11. A condenser microphone as claimed in claim 1, wherein the EM-noise-filtering/ESD-blocking section 32 comprises:

a first and a second capacitor C31 and C32 connected in parallel between output port of the amplification means and ground port; and

a first and a second resistor R31 and R32 connected respectively between adjacent ends of the two capacitors C31 and C32, so that the EM-noise-filtering/ESD-blocking section has a shape of a character '#', wherein,

the first capacitor C31 performs a filtering function, the second capacitor C32 faced to the first capacitor C31 performs an EM-noise-filtering and electrostatic-discharge-blocking function, and the resistors R31 and R32 performs a decoupling function and an electrostatic-discharge-blocking function.

12. A condenser microphone as claimed in claim 11, wherein:

the first capacitor C31 has a capacitance of 10pF or 33pF;

the second capacitor C32 has a capacitance selected from the group consisting of 1nF, 1.5nF, 2.2nF, 3.3nF, 4.7nF, 6.8nF, 10nF, 15nF, 22nF, 33nF, 47nF, 68nF and 100nF; and

each of the first and second resistors R31 and R32 has a resistance selected from the group consisting of 100Ω, 220Ω, 330Ω, 430Ω, 620Ω, 680Ω, 820Ω and 1KΩ.

13. A condenser microphone as claimed in claim 11, further comprising a noise-blocking resistor R33 between the acoustic module 36 and input port of the amplification means so as to block electromagnetic noise from being inputted.

14. A condenser microphone as claimed in claim 13, wherein the noise-blocking resistor R33 has a resistance selected from the group consisting of 100Ω, 1KΩ, 10KΩ, 100KΩ, and 1MΩ.

15. A condenser microphone as claimed in claim 1, wherein the EM-noise-filtering section 32 comprises a first capacitor C41, a second capacitor C42, and a third capacitor C43 connected in parallel with each other between ground port and output port of the amplification means.

16. A condenser microphone as claimed in claim 15, wherein:

the first capacitor C41 can be selectively adjusted so as to have a capacitance between 10pF and 20pF;

the second capacitor C42 can be selectively adjusted so as to have a capacitance between 20pF and 1nF; and

the third capacitor C43 can be selectively adjusted so as to have a capacitance between 1nF and 100μF.

17. A condenser microphone as claimed in claim 15, wherein, in the EM-noise-filtering/ESD-blocking section 32, a resistor R51 is further connected serially between a signal output end of the second capacitor C42 and a signal output end of the third capacitor C43.

18. A condenser microphone as claimed in claim 17, wherein:

the first capacitor C41 is selectively adjusted so as to have a capacitance between 10pF and 20pF;

the second capacitor C42 is selectively adjusted so as to have a capacitance between 20pF and 1nF;

the third capacitor C43 has a capacitance selected from the group consisting of 1nF, 1.5nF, 2.2nF, 3.3nF, 4.7nF, 6.8nF, 10nF, 15nF, 22nF, 33nF, 47nF, 68nF and 100nF; and

the resistor R51 has a resistance selected from the group consisting of 100Ω,

220Ω, 330Ω, 430Ω, 620Ω, 680Ω, 820Ω and 1KΩ.

19. A condenser microphone as claimed in claim 15, wherein, in the EM-noise-filtering section 32, a resistor R51 is further connected serially between a ground end of the second capacitor C42 and a ground end of the third capacitor C43.

20. A condenser microphone as claimed in claim 19, wherein:

the first capacitor C41 is selectively adjusted so as to have a capacitance between 10pF and 20pF;

the second capacitor C42 is selectively adjusted so as to have a capacitance between 20pF and 1nF;

the third capacitor C43 has a capacitance selected from the group consisting of 1nF, 1.5nF, 2.2nF, 3.3nF, 4.7nF, 6.8nF, 10nF, 15nF, 22nF, 33nF, 47nF, 68nF and 100nF; and

the resistor R51 has a resistance selected from the group consisting of 100Ω, 220Ω, 330Ω, 430Ω, 620Ω, 680Ω, 820Ω and 1KΩ.

21. A condenser microphone as claimed in claim 1 or 2, wherein, the capacitor is a temperature compensating capacitor or a capacitor of high dielectric constant.

22. A condenser microphone as claimed in claim 1, wherein, the amplification means is one of an amplifier used in a built-in-gain microphone and a field-effect transistor.